

# Work Order ID 59491



Friday, June 04, 2010 2:58:57 PM

Page 1

Item ID: D350-794-013

Accept



Setup Start



Revision ID:

Item Name: Auxiliary Fuel Tank Provisions

Stop



Start Date: 6/4/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 6/10/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

*[Signature]*

Date: 10/6/07

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D350-794	C								
100		0.00							
	DOCUMENT CONTROL								
DC		0.00							
Document Control	Memo								
	Photocopy bluefile & type labels per PPPD350-794-013		CHG001						
110		0.00							
	Pick Kit								
Packaging		0.00							
Packaging	Memo								
120		0.00							
	QC4- 100% Inspect kits for completeness								
QC		0.00							
Quality Control	Memo								

*gone into  
[Signature]  
[Signature] - 011 w/ID 59495*

*OK for BG 10/11/08*

*Scolalis*

*[Signature] 10/11/08*

*P70 →*

*Scolalis*

*(H)*

W/O: 59491		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
10/11/18	#100	perm. change Missing MS35207-264 +1 in kit. ADD to kit m# 115300 <del>update w/o + Bom. ADD copy of new Bom as Ref.</del>		10/11/18	1		J 10/11/18	

Part No: D350-794 013 PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

**Work Order ID 59491**

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Page 2

Item ID: D350-794-013

Accept

Setup Start

Revision ID:

Stop

Item Name: Auxiliary Fuel Tank Provisions

Start Date: 6/4/2010 Start Qty: 1.00

Cust Item ID:

Required Date: 6/10/2010 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

130

0.00



Packaging

Packaging

Memo

0.00

Identify and pack for shipping as per PPPD350-794-013

Location:

PPP Rev:

PPP 54491 ~~DEMO~~ DEMO

140

0.00



QC21- Final Inspection - Work Order Release

QC

Memo

0.00

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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# Picklist Print

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Page 1

Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4022-041 Fuel Transfer Pump Assembly		Manufactured	No			110	Each	0.0000	1	1			
D4002-5 Hose Assembly		Manufactured	No			110	Each	3.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ENG				3					
					55636			3					
D4003-047 Fuel Pump Inlet Pipe		Manufactured	No			110	Each	1.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ENG				1					
					55852			1					
D4002-7 Hose Assembly		Manufactured	No			110	Each	3.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ENG				3					
					55637			3					
AN832-6D UNION		Purchased	No			110	Each	13.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST333				13					
					107737			1					
					114742			12					

59512

B55636

59697

55637

M774742

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN924-6D Nut		Purchased	No			110	Each	12.0000	2	2			
<div> <div>Location</div> <div>ST335</div> <div>114742</div> </div> <div> <div>Loc Qty</div> <div>12</div> <div>12</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
NAS1149D0963J Washer		Purchased	No			110	Each	0.0000	2	2			
AN815-6D Union-M-Flare		Purchased	No			110	Each	8.0000	2	2			
<div> <div>Location</div> <div>ST329</div> <div>114348</div> <div>114523</div> </div> <div> <div>Loc Qty</div> <div>8</div> <div>3</div> <div>5</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> </div>													
MS29512-06 O-RING		Purchased	No			110	Each	27.0000	-2				
<div> <div>Location</div> <div>ST294</div> <div>113691</div> <div>114742</div> </div> <div> <div>Loc Qty</div> <div>27</div> <div>7</div> <div>20</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> </div>													

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W/O:		WORK ORDER CHANGES					
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Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



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Work Order ID: 59491



Parent Item: D350-794-013



Parent Item Name: Auxiliary Fuel Tank Provisions

Start Date: 6/4/2010

Required Date: 6/10/2010

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4022-3 Fuel Pump Mounting Bracket		Manufactured	No			110	Each	5.0000	1	1			

Location

Loc Qty

Loc Code

ENG

5

55197

5

AN3-4A

Purchased

No

110

Each

1,410.000

2

2

Bolt

Location

Loc Qty

Loc Code

ST350

1410

104214

249

104291

300

104322

200

104374

200

104625

300

104817

161

MS21042L3

Purchased

No

110

Each

160.0000

9

9

USE MS21042L3

Location

Loc Qty

Loc Code

ST299

160

111650

60

114597

100

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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[REDACTED]

**Required Date:** 6/10/2010

**Required Qty: 1.00**

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions





Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
CR3213-4-3  Cherry Rivet		Purchased	No			110	Each	83.0000	18	18			
<div> <div>Location</div> <div>ST312</div> <div>110153</div> </div> <div> <div>Loc Qty</div> <div>83</div> <div>83</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
CR3212-4-3  Cherry Rivet		Purchased	No			110	Each	16.0000	4	4			
<div> <div>Location</div> <div>ST311</div> <div>110139</div> </div> <div> <div>Loc Qty</div> <div>16</div> <div>16</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
MS20470AD4-6  Rivet, Universal Head		Purchased	No			110	Each	581.0000	12	12			
<div> <div>Location</div> <div>ST320</div> <div>113644</div> </div> <div> <div>Loc Qty</div> <div>581</div> <div>581</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
MS20470AD3-4  Rivet, Universal Head		Purchased	No			110	Each	11,153.00	32	32			
<div> <div>Location</div> <div>ST319</div> <div>111477</div> <div>15541</div> </div> <div> <div>Loc Qty</div> <div>11153</div> <div>8332</div> <div>2821</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> </div>													

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries

# Picklist Print

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MS20470AD5-6 Rivet		Purchased	No			110	Each	1,929.000	16	16			

## Location

## Loc Qty

## Loc Code

ST320

1929

105433

1929

MS20470AD5-8 Rivet		Purchased	No			110	Each	0.0000	6	6			
CR3213-5-2 Cherry Rivet		Purchased	No			110	Each	0.0000	9	9			
CR3212-5-4 Cherry Rivet		Purchased	No			110	Each	0.0000	6	6			
CR3212-5-3 Cherry Rivet		Purchased	No			110	Each	0.0000	3	3			
CR3212-5-2 Cherry Rivet		Purchased	No			110	Each	0.0000	10	10			
MS21919-WDG8 Clamp		Purchased	No			110	Each	66.0000	2	2			

## Location

## Loc Qty

## Loc Code

ST307

66

100202

66

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4003-11 Vent Pipe - Tank		Manufactured	No			110	Each	1.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				ENG			1						
					55856		1						
D4003-049 Tank Vent Line Assembly		Manufactured	No			110	Each	2.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				ENG			2						
					55194		2						
D4027-043 Hose Clamp Assembly		Manufactured	No			110	Each	0.0000	1	1			
D4063-31 Hose		Manufactured	No			110	Each	6.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				ENG			6						
					55931		6						
2000-8S Hose Clamp		Purchased	No			110	Each	0.0000	2	2			
NAS43DD3-32N Spacer		Purchased	No			110	Each	0.0000	1	1			

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W/O:		WORK ORDER CHANGES					
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Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MS35207-267  Screw		Purchased	No			110	Each	0.0000	1	1			
MS35207-264  Screw		Purchased	No			110	Each	42.0000	3	3			
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				ST295			42						
				109031			2						
				111359			40						
NAS1149D0332J  Washer		Purchased	No			110	Each	393.0000	4	4			
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				FP			100						
				113644			100						
				ST298			293						
				112794			15						
				113237			80						
				114348			198						
MS21919-WDG6  Clamp		Purchased	No			110	Each	41.0000	1	1			
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				ST307			41						
				15993			27						
				4067			10						
				7637			4						

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W/O:		WORK ORDER CHANGES					
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Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
S D4009-041  Bonding Braid		Manufactured	No			110	Each	0.0000	2	2			
S D4005-1  Rear Restraint Angle Gutter		Manufactured	No			110	Each	6.0000	1	1			
<div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div>													
<div> <div>ENG</div> <div>6</div> <div></div> </div>													
<div> <div>55655</div> <div>4</div> <div></div> </div>													
<div> <div>55862</div> <div>2</div> <div></div> </div>													
S D4004-11  Top Strap Attach Bracket		Manufactured	No			110	Each	2.0000	1	1			
<div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div>													
<div> <div>ENG</div> <div>2</div> <div></div> </div>													
<div> <div>55898</div> <div>2</div> <div></div> </div>													
S D4004-5  Bottom Strap Attach Bracket		Manufactured	No			110	Each	2.0000	1	1			
<div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div>													
<div> <div>ENG</div> <div>2</div> <div></div> </div>													
<div> <div>55860</div> <div>2</div> <div></div> </div>													
S MS24694-S50  Screw		Purchased	No			110	Each	42.0000	3	3			
<div> <div>Location</div> <div>Loc Qty</div> <div>Loc Code</div> </div>													
<div> <div>ST289</div> <div>42</div> <div></div> </div>													
<div> <div>113538</div> <div>42</div> <div></div> </div>													

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
NAS1149F0363P Washer		Purchased	No			110	Each	181.0000	3	3			

Location Loc Qty Loc Code

ST275

181

113254

81

114382

100

D4024-041 Restraint Strap		Manufactured	No			110	Each	0.0000	1	1			
D4004-041 Side Restraint Angle		Manufactured	No			110	Each	0.0000	1	1			
D4007-3 Support		Manufactured	No			110	Each	0.0000	1	1			
D4006-041 Tank Top Support Assembly		Manufactured	No			110	Each	0.0000	1	1			
AN4-5A Bolt		Purchased	No			110	Each	245.0000	2	2			

Location

Loc Qty

Loc Code

ST356

245

114108

45

114330

200

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
S NAS1149F0463P Washer		Purchased	No			110	Each	165.0000	2	2			
<div> <div>Location</div> <div>ST275</div> <div>114223</div> <div>114348</div> </div> <div> <div>Loc Qty</div> <div>165</div> <div>65</div> <div>100</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> <div></div> </div>													
S D4005-041 Fwd Floor Gutter		Manufactured	No			110	Each	0.0000	1	1			
<div> <div>Location</div> <div>ENG</div> <div>55911</div> </div> <div> <div>Loc Qty</div> <div>8</div> <div>8</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
S D4063-1 Hose		Manufactured	No			110	Each	8.0000	1	1			
<div> <div>Location</div> <div>ENG</div> <div>55911</div> </div> <div> <div>Loc Qty</div> <div>8</div> <div>8</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
S MS21919-WDG9 Clamp		Purchased	No			110	Each	43.0000	1	1			
<div> <div>Location</div> <div>ST307</div> <div>111578</div> </div> <div> <div>Loc Qty</div> <div>43</div> <div>43</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
S 2000-6S Hose Clamp		Purchased	No			110	Each	0.0000	1	1			
S NAS1474-08 Sealed Captive Anchor Nut		Purchased	No			110	Each	0.0000	3	3			

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions









Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4005-11 		Manufactured	No			110	Each	0.0000	1	1			
Finishing Strip MS21059L08 		Purchased	No			110	Each	323.0000	4	4			
Nut													
<div> <div>Location</div> <div>ST301</div> <div>112314</div> <div>12706</div> </div> <div> <div>Loc Qty</div> <div>323</div> <div>200</div> <div>123</div> </div> <div> <div>Loc Code</div> <div></div> </div>													
AN525-832R6 		Purchased	No			110	Each	0.0000	1	1			
Screw D8-603 		Purchased	No			110	Each	0.0000	1	1			
ECF Fuse, 6.3 amps D1-205 		Purchased	No			110	Each	0.0000	1	1			
ECF Fuse, 2.5 amps MS35058-23 		Purchased	No			110	Each	0.0000	1	1			
Switch 107-964 		Purchased	No			110	Each	0.0000	1	1			
Connector Receptacle 107-978 		Purchased	No			110	Each	0.0000	1	1			
Connector Backshell													


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W/O: 59491

## WORK ORDER CHANGES

DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		Perm. change					
10/16/18	#100	wrong Qty for AN525-832 R6 should be 9 per kit <del>was</del> update w/o to Bom- ADD copies of new Bom for Ref.		10-11-22	-	N/A	8 10/16/18

Part No: D350-794-013 PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:

## WORK ORDER NON-CONFORMANCE (NCR)

DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date &amp; initial all entries

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
107-943 Connector Plug		Purchased	No			110	Each	0.0000	1	1			
MS35206-217 Screw		Purchased	No			110	Each	90.0000	4	4			

## Location

## Loc Qty

## Loc Code

ST294

90

107063

90

NAS1149FN416P Washer		Purchased	No			110	Each	0.0000	4	4			
MS21044N04 Nut		Purchased	No			110	Each	0.0000	4	4			
143-207 Plug		Purchased	No			110	Each	0.0000	1	1			
143-208 Receptacle		Purchased	No			110	Each	0.0000	1	1			
143-204 Receptacle Housing		Purchased	No			110	Each	0.0000	1	1			
143-203 Plug Housing		Purchased	No			110	Each	0.0000	1	1			

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
143-219 Crimp Pin		Purchased	No			110	Each	0.0000	5	5			
143-217 Crimp Socket		Purchased	No			110	Each	0.0000	5	5			
D4026-041 Fuel Gauge Assembly		Manufactured	No			110	Each	0.0000	1	1			
NAS1149FN832P Washer		Purchased	No			110	Each	0.0000	2	2			
MS21042-08 USE MS21042L08		Purchased	No			110	Each	103.0000	2	2			
444-2556 Gauge Master Switch		Purchased	No			110	Each	0.0000	1	1			
D4022-5 Thermal Switch		Manufactured	No			110	Each	9.0000	1	1			

## Location

ST301

103668

## Loc Qty

103

103

## Loc Code

## Location

ENG

55518

## Loc Qty

9

9

## Loc Code

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



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Work Order ID: 59491



Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Start Date: 6/4/2010

Required Date: 6/10/2010

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN5800-1' 		Purchased	No			110	Each	0.0000	1	1			
Placard Holder													
AN929-6D 		Purchased	No			110	Each	0.0000	1	1			
Nut													
MS20470AD4-4 		Purchased	No			110	Each	1,860.000	60	60			
Rivet, Universal Head													

M115358

M115001

M115470

Location Loc Qty Loc Code

ST319	122	
112314	30	
113368	92	
ST321	1738	
114761	1738	

Pto →

D3997-1 		Manufactured	No			110	Each	10.0000	1	1			
Placard													

Location Loc Qty Loc Code

ST108	10	
55400	10	

55400

D3997-5 		Manufactured	No			110	Each	10.0000	1	1			
Placard													

10/11/8 (1)

Location Loc Qty Loc Code

ST108	10	
55402	10	

55402

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W/O: 59491		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
10/11/18	#100	Remove MS20470AD4-4 not in this kit update w/o to Bom. ADD copy of new Bom for R	411	10-11-22	-	N/A	S 10/11/18	

Part No: D350-794-013 PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions





Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
S D3997-7  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55403</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
S D3997-9  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55405</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
S D3997-11  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55407</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
S D3997-13  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55408</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions





Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3997-15  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55409</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-17  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55410</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-19  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55411</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-21  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55412</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Picklist Print

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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions





Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3997-23  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55413</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-25  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55414</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-29  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55416</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-31  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55417</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



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Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions





Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3997-33  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55418</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-35  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55419</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-37  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55420</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													
D3997-39  Placard		Manufactured	No			110	Each	10.0000	1	1			
<div> <div>Location</div> <div>ST108</div> <div>55425</div> </div> <div> <div>Loc Qty</div> <div>10</div> <div>10</div> </div> <div> <div>Loc Code</div> <div></div> <div></div> </div>													

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Shop Packet Print

Page 19

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Picklist Print

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Page 20

Work Order ID: 59491

Parent Item: D350-794-013

Parent Item Name: Auxiliary Fuel Tank Provisions

Comments: IPP Rev:A 10.05.20 as per ecn10-562 DD verf:

Start Date: 6/4/2010

Required Date: 6/10/2010

Start Qty: 1.00



Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D3997-41		Manufactured	No			110	Each	10.0000	1	1			
													
Placard													

Location Loc Qty Loc Code

ST108 10  
55421 10

D3997-43		Manufactured	No			110	Each	10.0000	1	1			
													
Placard													

Location Loc Qty Loc Code

ST108 10  
55422 10

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Shop Packet Print

Page 20

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# SPECIFICATION CONTROL DRAWING

DART PART NUMBER	JOHN CAMERON AVIATION PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	ALTERNATE MANUFACTURER	ALTERNATE MANUFACTURER PART NUMBER	2ND ALTERNATE MANUFACTURER	2ND ALTERNATE MANUFACTURER PART NUMBER	MIL SPEC	SUGGESTED SUPPLIER
D4290-1	DSQ201	SWITCH	HONEYWELL	DSQ201						EUROCOPTER
D4290-3	DSB11WWWWN	SWITCH CAP	HONEYWELL	DSB11WWWWN						EUROCOPTER
D4290-5	GM2322	LAMP								EUROCOPTER
D4290-7	444-2556	SWITCH	C&K	7101SYZQE	TYCO ELECTRONICS	A101SYZQ04	TYCO ELECTRONICS	MTA106D	3	2ND ALTERNATE
D4290-9	HA21-205	FUSE	EUROCOPTER	HA21-2U5	SCHURTER	7010.3450	LITTELFUSE	021702.5HXP		EUROCOPTER / SCHURTER
D4290-11	HA23-603	FUSE	EUROCOPTER	HA23-6U3	SCHURTER	7010.3510	LITTELFUSE	021706.3HXP		EUROCOPTER / SCHURTER
D4290-13	EN3155016M20186	CONTACTS	EUROCOPTER	EN3155016M20186						EUROCOPTER
D4290-15	143-204 OR 973-1482	RECEPTACLE	MOLEX	03092011						
D4290-17	143-203 OR 973-1490	PLUG	MOLEX	03091011						
D4290-19	M81824/1-2	WIRE SPLICE (BLUE)			TYCO ELECTRONICS	D-436-37			M81824/1-2	
D4290-21	31881	TERMINAL (RED)	TYCO ELECTRONICS	31881	TYCO ELECTRONICS	36150	TYCO ELECTRONICS	36152		
D4290-23	143-208	RECEPTACLE	MOLEX	03091041						
D4290-25	107-943	CONNECTOR, PLUG	AB CONNECTORS	ABB06T10SL3PSN					MIL-C-5015	8
D4290-27	107-978 OR 105-5465	CONNECTOR BACKSHELL	AB CONNECTORS	SB10SL3CCA	AB CONNECTORS	ABB10SL30CN			MIL-C-5015	8
D4290-29	107-964	CONNECTOR RECEPTACLE	AB CONNECTORS	ABB00T10SL3SSNSB10SLRPG					MIL-C-5015	8
D4290-31	143-217 OR 977-3797	CRIMP SOCKET	MOLEX	02091118	MOLEX	02091119				
D4290-33	143-207	PLUG HOUSING	MOLEX	03092041						
D4290-35	143-219 OR 977-3800	CRIMP PIN	MOLEX	02092118						

## D4290-X ELECTRICAL PARTS

## PRELIMINARY ISSUE

10.11.02

NOTES:  
 1) MATERIAL: N/A  
 2) FINISH: N/A  
 3) TOLERANCES: N/A  
 4) UNITS: N/A  
 5) BREAK SHARP EDGES: N/A  
 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1  
 7) WEIGHT: N/A  
 8) MIL SPEC MAY BE ORDERED BUT REQUIRED PHYSICAL VERIFICATION

PA2	NEW ISSUE		10.11.02
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.02		

<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. <b>D4290</b>	REV. PA2 SHEET 1 OF 1
TITLE <b>ELECTRICAL PARTS</b>	SCALE NTS
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

## REFERENCE ONLY

## 4.0 ELECTRICAL LOAD

The electrical load effect for each aircraft must be assessed as follows.

Component	Load
Fuel Pump	3.00 Amps
Fuel Gauge	0.45 Amps
Fuel Sender	0.13 Amps
Total Installation	3.58 Amps = 100 Watts

## 5.0 WEIGHT AND BALANCE

The following is the weight increase associated with the Aux Fuel Tank Installation. Be sure to subtract the weight of any parts or material removed.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-794-011 Auxiliary Fuel Tank (AS350 models)	29.8 lb 13.5 kg	-22.0 in -0.56 m	-655.6 in-lb -7.56 m-k-g	126.0 in 3.20 m	3754.8 in-lb 43.2 m-k-g
D350-794-013 Auxiliary Fuel Tank Provisions (AS350 models)	5.5 lb 2.5 kg	-14.6 in -0.37 m	-80.3 in-lb -0.93 m-k-g	163.4 in 4.15 m	898.7 in-lb 10.4 m-k-g
D130-794-021 Auxiliary Fuel Tank (EC130 models)	29.8 lb 13.5 kg	-23.6 in -0.60 m	-703.3 in-lb -8.1 m-k-g	126.0 in 3.20 m	3754.8 in-lb 43.2 m-k-g
D130-794-023 Auxiliary Fuel Tank Provisions (EC130 models)	5.5 lb 2.5 kg	-16.1 in -0.41 m	-88.6 in-lb -1.03 m-k-g	163.4 in 4.15 m	898.7 in-lb 10.4 m-k-g

## 6.0 PARTS LIST

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
X					D350-794-011		AUXILIARY FUEL TANK (AS 350 SERIES)
1	X				D350-794-013		AUXILIARY FUEL TANK PROVISIONS (AS 350 SERIES)
		X			D130-794-021		AUXILIARY FUEL TANK (EC 130 SERIES)
		1	X		D130-794-023		AUXILIARY FUEL TANK PROVISIONS (EC 130 SERIES)
1		1		X	D350-794-041		TANK ASSEMBLY
				1	D4055-041	JCA/M47-1-01A	FUEL TANK
	1		1		D4022-041	A8150-B1-JCA	FUEL TRANSFER PUMP ASSEMBLY
				1	D4023-1	ER281	FUEL CAP
	1		1		D4002-5	JCA-M47-2-13	SUPPLY HOSE - FROM AUX TANK
	1		1		D4003-047	JCA-M47-2-16	FUEL PUMP INLET PIPE
	1		1		D4002-7	JCA-M47-2-25	SUPPLY HOSE - PUMP TO MAIN TANK FILLER NECK
				1	D4002-041	JCA-M47-1-13	DRAIN HOSE ASSEMBLY - FRONT
				1	D4002-043	JCA-M47-1-16	DRAIN HOSE ASSEMBLY - REAR
				2	MS20822-3D		UNION
	1		1		AN832-6D		BULKHEAD UNION
				1	AN816-6D		STRAIGHT FITTING
	2		2		AN924-6D		NUT (ALTERNATE AS5178D06)
	2		2		NAS1149D0963J		WASHER

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Revision: C  
Date: 10.01.25

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
				1	MS20822-8D		90° FITTING
	2		2		AN815-6D		UNION
	2		2		MS29512-06		ORING
	1		1		D4022-3	05-00021	FUEL PUMP MOUNTING BRACKET
	2		2		AN3-4A		BOLT
	2		2		MS21042-3		NUT
	2		2		AN970-3		WASHER
	1		1		D4008-043	JCA-M47-2-29	FUEL PUMP SPLASH GUARD
	1		1		D4004-7	N3	HOSE CLIP
				2	D4009-041	JCA-M47-4-01	BONDING BRAID
				1	D4008-041	JCA-M47-2-26	AUXILIARY TANK FILLER SPLASH GUARD
	4		4		AN525-10R6		SCREW
	1		1		D4001-3	AN832-6D-JCA	BULKHEAD FITTING - MODIFIED
	7		7		CR3212-5-5		CHERRY MAX RIVET
	18		18		CR3213-4-3		CHERRY MAX RIVET
	4		4		CR3212-4-3		CHERRY MAX RIVET
	12		12		MS20470AD4-6		RIVET
	32		32		MS20470AD3-4		RIVET
	16		16		MS20470AD5-6		RIVET
	6		6		MS20470AD5-8		RIVET
	9		9		CR3213-5-2		CHERRY MAX RIVET
	6		6		CR3212-5-4		CHERRY MAX RIVET
	3		3		CR3212-5-3		CHERRY MAX RIVET
	10		10		CR3212-5-2		CHERRY MAX RIVET
							<b>Vent Assembly Parts</b>
	2		2		MS21919WDG-8		CLAMP
	1		1		D4003-11	JCA-M47-2-21	VENT PIPE - TANK
			1		D4027-041	JCA-M47-2-20	VENT CLAMP ASSEMBLY
	1		1		D4003-049	JCA-M47-2-17	VENT PIPE - TANK
	1		1		D4027-043	JCA-M47-2-35	VENT CLAMP ASSEMBLY
	1		1		D4063-3	193-8	VENT HOSE
	2		2		2000-8S		HOSE CLAMP
	1		1		NAS43DD3-32N		SPACER
	1		1		MS35207-267		SCREW
	2		2		MS35207-264		SCREW
	3		3		NAS1149D0332J		WASHER
	3		3		MS21042-3		NUT
				3	TBA28B		CABLE TIE FASTENER
				1	TY25MX		TIE WRAP
	1		1		MS21919WDG-6		CLAMP (RUBBER REMOVED)
	1		1		D4009-041	JCA-M47-4-01	BONDING BRAID ASSEMBLY
							<b>Restraint Assembly Parts</b>
	1		1		D4005-1	JCA-M47-2-03	REAR RESTRAINT ANGLE/GUTTER
	1		1		D4004-11	JCA-M47-2-11	TOP STRAP ATTACH BRACKET
	1		1		D4004-5	JCA-M47-2-23	BOTTOM STRAP ATTACH BRACKET
	3		3		MS24694-S50		SCREW
	3		3		MS21042-3		NUT
	3		3		NAS1149F0363P		WASHER
	1		1		D4024-041	JCA/ASSO/MIN	ANCRA RESTRAINT STRAP
	1		1		D4004-041	JCA-M47-2-19	SIDE RESTRAINT ANGLE
	1		1		D4007-3	JCA-M47-2-18	TOP SUPPORT BRACKET
	1		1		D4006-041	JCA-M47-2-01	TANK TOP SUPPORT ASSEMBLY

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Revision: C

Date: 10.01.25



# REFERENCE ONLY

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IIN-D350-794

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Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
	2		2		AN4-5A		BOLT
	2		2		NAS1149F0463P		WASHER
							<b>Locker Preparation Parts</b>
	1		1		D4005-041	JCA-M47-2-22	FORWARD FLOOR GUTTER
	1		1		D4063-1	193-6	DRAIN HOSE
	1		1		MS21919WDG-9		CLAMP
	1		1		MS35207-264		SCREW
	1		1		NAS1149D0332J		WASHER
	1		1		MS21042-3		NUT
	1		1		2000-6S		HOSE CLAMP
	3		3		NAS1474-08		SEALED CAPTIVE ANCHOR NUT
	1		1		D4005-11	JCA-M47-2-12	FINISHING STRIP
	4		4		MS21059-L08		ANCHOR NUT
	7		7		AN525-832R6		SCREW
							<b>Electrical Parts</b>
	1		1		D8-603		6.3A ECF FUSE (ALTERNATE HA23-6U3)
	1		1		D1-205		2.5A ECF FUSE (ALTERNATE HA21-2U5)
	1		1		MS35058-23		SWITCH
	1		1		107-984		CONNECTOR RECEPTACLE
	1		1		107-978		CONNECTOR BACKSHELL (ALTERNATE 105-5465)
	1		1		107-943		CONNECTOR PLUG
				1	D4025-1	VDO-M47-JCA	FUEL QUANTITY SENDER
	4		4		MS35206-217		SCREW
	4		4		NAS1149FN416P		WASHER
	4		4		MS21044N04		NUT
	1		1		143-207		PLUG
	1		1		143-208		RECEPTACLE
	1		1		143-204		RECEPTACLE HOUSING (ALTERNATE 973-1490)
	1		1		143-203		PLUG HOUSING (ALTERNATE 973-1482)
	5		5		143-219		CRIMP PIN (ALTERNATE 977-3800)
	5		5		143-217		CRIMP SOCKET (ALTERNATE 977-3797)
	1		1		D4009-041	JCA-M47-4-01	BONDING BRAID ASSEMBLY
	1		1		D4026-041	FL-100-R-JCA	FUEL GAUGE
	2		2		AN525-832R6		SCREW - GROUND STUD
	2		2		NAS1149FN832P		WASHER
	2		2		MS21042-08		NUT
	1		1		444-2556		GAUGE MASTER SWITCH
	1		1		D4022-5	3775628	THERMAL SWITCH (125°) - FARNELL (ALTERNATE 100-6847)
							<b>General</b>
	1		1		AN5800-1		PLACARD HOLDER
	1		1		AN929-6D		BLANK CAP
							<b>Additional EC 130 Parts</b>
			3		MS35207-264		SCREW
			3		NAS1149D0332J		WASHER
			3		MS21042-3		NUT
			1		D4027-041	JCA-M47-2-20	VENT CLAMP ASSEMBLY
			1		D4004-043	JCA-M47-2-04	SIDE RESTRAINT ANGLE AND TIE DOWN POINT

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Revision: C  
Date: 10.01.25

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
			1		D4005-5	JCA-M47-2-06	ANGLE
			4		D4005-7	JCA-M47-2-07	ANGLE
			1		D4005-9	JCA-M47-2-08	ANGLE
			1		D4007-1	JCA-M47-2-02	TOP SUPPORT BRACKET
			1		D4005-3	JCA-M47-2-05	FORWARD RESTRAINT BEAM
			2		AN4-6A		BOLT
			1		D4007-5	JCA-M47-2-24	PACKER
			60		MS20470AD4-4		RIVET
			30		MS20470AD4-6		RIVET
			10		CR3213-4-3		CHERRY MAX RIVET
			10		CR3213-4-2		CHERRY MAX RIVET
							<b>Placards</b>
	1				D3997-1	JCA-M47-P1	FUEL QUANTITY – AS 350 MODELS
			1		D3997-3	JCA-M47-P2	FUEL QUANTITY – EC 130 B4 MODEL
	1		1		D3997-5	JCA-M47-P3	AUX FUEL DRAIN
	1		1		D3997-7	JCA-M47-P4	AUX FUEL TRANSFER PUMP
	1		1		D3997-9	JCA-M47-P5	AUX FUEL
	1		1		D3997-11	JCA-M47-P6	WEIGHT AND BALANCE
	1		1		D3997-13	JCA-M47-P7	ON/OFF
	1		1		D3997-15	JCA-M47-P8	CHECK LOCKER TANK
	1		1		D3997-17	JCA-M47-P9	STOWAGE PROHIBITED
	1		1		D3997-19	JCA-M47-P10	TANK VENT
	1		1		D3997-21	JCA-M47-P13	SWITCH FIXED
	1		1		D3997-23	JCA-M47-P14	AUX FUEL
	1				D3997-25	JCA-M47-P15	CONVERSION CHART – AS 350 MODELS
			1		D3997-27	JCA-M47-P16	CONVERSION CHART – EC 130 B4 MODEL
	1		1		D3997-29	JCA-M47-P17	DO NOT OVERFILL WARNING
	1		1		D3997-31	JCA-M47-P18	ON/OFF
	1		1		D3997-33	JCA-M47-P19	AUX GAUGE FACE
	1		1		D3997-35	JCA-M47-P20	AUX FUEL GAUGE
	1		1		D3997-37	JCA-M47-P21	6.3 A CIRCUIT BREAKER
	1		1		D3997-39	JCA-M47-P22	2.5A CIRCUIT BREAKER
	1		1		D3997-41	JCA-M47-P23	AUX TANK NOT FITTED
	1		1		D3997-43	JCA-M47-P24	EARTH

#### 4.0 ELECTRICAL LOAD

The electrical load effect for each aircraft must be assessed as follows.

Component	Load
Fuel Pump	3.00 Amps
Fuel Gauge	0.45 Amps
Fuel Sender	0.13 Amps
Total Installation	3.58 Amps = 100 Watts

#### 5.0 WEIGHT AND BALANCE

The following is the weight increase associated with the Aux Fuel Tank Installation. Be sure to subtract the weight of any parts or material removed.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-794-011 Auxiliary Fuel Tank (AS350 models)	29.8 lb 13.5 kg	-22.0 in -0.56 m	-655.6 in-lb -7.56 m-kg	126.0 in 3.20 m	3754.8 in-lb 43.2 m-kg
D350-794-013 Auxiliary Fuel Tank Provisions (AS350 models)	5.5 lb 2.5 kg	-14.6 in -0.37 m	-80.3 in-lb -0.93 m-kg	163.4 in 4.15 m	898.7 in-lb 10.4 m-kg
D130-794-021 Auxiliary Fuel Tank (EC130 models)	29.8 lb 13.5 kg	-23.6 in -0.60 m	-703.3 in-lb -8.1 m-kg	126.0 in 3.20 m	3754.8 in-lb 43.2 m-kg
D130-794-023 Auxiliary Fuel Tank Provisions (EC130 models)	5.5 lb 2.5 kg	-16.1 in -0.41 m	-88.6 in-lb -1.03 m-kg	163.4 in 4.15 m	898.7 in-lb 10.4 m-kg

#### 6.0 PARTS LIST

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
X					D350-794-011		AUXILIARY FUEL TANK (AS 350 SERIES)
1	X				D350-794-013		AUXILIARY FUEL TANK PROVISIONS (AS 350 SERIES)
		X			D130-794-021		AUXILIARY FUEL TANK (EC 130 SERIES)
		1	X		D130-794-023		AUXILIARY FUEL TANK PROVISIONS (EC 130 SERIES)
1		1		X	D350-794-041		TANK ASSEMBLY
				1	D4055-041	JCA/M47-1-01A	FUEL TANK
	1		1		D4022-041	A8150-B1-JCA	FUEL TRANSFER PUMP ASSEMBLY
				1	D4023-1	ER281	FUEL CAP
	1		1		D4002-5	JCA-M47-2-13	SUPPLY HOSE - FROM AUX TANK
	1		1		D4003-047	JCA-M47-2-16	FUEL PUMP INLET PIPE
	1		1		D4002-7	JCA-M47-2-25	SUPPLY HOSE - PUMP TO MAIN TANK FILLER NECK
				1	D4002-041	JCA-M47-1-13	DRAIN HOSE ASSEMBLY - FRONT
				1	D4002-043	JCA-M47-1-16	DRAIN HOSE ASSEMBLY - REAR
				2	MS20822-3D		UNION
	1		1		AN832-6D	M114742	BULKHEAD UNION
				1	AN816-6D	M691	STRAIGHT FITTING
	2		2		AN924-6D	M114742	NUT (ALTERNATE AS5178D06)
	2		2		NAS1149D0963J		WASHER

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Revision: C

Date: 10.01.25

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
				1	MS20822-8D	MLP 762	90° FITTING
	2		2		AN815-6D	M 114 935	UNION
	2		2		MS29512-06		ORING
	1		1		D4022-3	05-00021	FUEL PUMP MOUNTING BRACKET
	2		2		AN3-4A		BOLT
	2		2		MS21042-3		NUT
	2		2		AN970-3		WASHER
	1		1		D4008-043	JCA-M47-2-29	FUEL PUMP SPLASH GUARD
	1		1		D4004-7	N3	HOSE CLIP
				2	D4009-041	JCA-M47-4-01	BONDING BRAID
				1	D4008-041	JCA-M47-2-26	AUXILIARY TANK FILLER SPLASH GUARD
	4		4		AN525-10R6		SCREW
	1		1		D4001-3	AN832-6D-JCA	BULKHEAD FITTING - MODIFIED
	7		7		CR3212-5-5		CHERRY MAX RIVET
	18		18		CR3213-4-3		CHERRY MAX RIVET
	4		4		CR3212-4-3		CHERRY MAX RIVET
	12		12		MS20470AD4-6		RIVET
	32		32		MS20470AD3-4		RIVET
	16		16		MS20470AD5-6		RIVET
	6		6		MS20470AD5-8		RIVET
	9		9		CR3213-5-2		CHERRY MAX RIVET
	6		6		CR3212-5-4		CHERRY MAX RIVET
	3		3		CR3212-5-3		CHERRY MAX RIVET
	10		10		CR3212-5-2		CHERRY MAX RIVET
							<b>Vent Assembly Parts</b>
	2		2		MS21919WDG-8		CLAMP
	1		1		D4003-11	JCA-M47-2-21	VENT PIPE - TANK
			1		D4027-041	JCA-M47-2-20	VENT CLAMP ASSEMBLY
	1		1		D4003-049	JCA-M47-2-17	VENT PIPE - TANK
	1		1		D4027-043	JCA-M47-2-35	VENT CLAMP ASSEMBLY
	1		1		D4063-3	193-8	VENT HOSE
	2		2		2000-8S		HOSE CLAMP
	1		1		NAS43DD3-32N		SPACER
	1		1		MS35207-267		SCREW
	2		2		MS35207-264		SCREW
	3		3		NAS1149D0332J		WASHER
	3		3		MS21042-3		NUT
				3	TBA28B		CABLE TIE FASTENER
				1	TY25MX		TIE WRAP
	1		1		MS21919WDG-6		CLAMP (RUBBER REMOVED)
	1		1		D4009-041	JCA-M47-4-01	BONDING BRAID ASSEMBLY
							<b>Restraint Assembly Parts</b>
	1		1		D4005-1	JCA-M47-2-03	REAR RESTRAINT ANGLE/GUTTER
	1		1		D4004-11	JCA-M47-2-11	TOP STRAP ATTACH BRACKET
	1		1		D4004-5	JCA-M47-2-23	BOTTOM STRAP ATTACH BRACKET
	3		3		MS24694-S50		SCREW
	3		3		MS21042-3		NUT
	3		3		NAS1149F0363P		WASHER
	1		1		D4024-041	JCA/ASSO/MIN	ANCRA RESTRAINT STRAP
	1		1		D4004-041	JCA-M47-2-19	SIDE RESTRAINT ANGLE
	1		1		D4007-3	JCA-M47-2-18	TOP SUPPORT BRACKET
	1		1		D4006-041	JCA-M47-2-01	TANK TOP SUPPORT ASSEMBLY

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Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
	2		2		AN4-5A		BOLT
	2		2		NAS1149F0463P		WASHER
							<b>Locker Preparation Parts</b>
	1		1		D4005-041	JCA-M47-2-22	FORWARD FLOOR GUTTER
	1		1		D4063-1	193-6	DRAIN HOSE
	1		1		MS21919WDG-9		CLAMP
	1		1		MS35207-264		SCREW
	1		1		NAS1149D0332J		WASHER
	1		1		MS21042-3		NUT
	1		1		2000-6S		HOSE CLAMP
	3		3		NAS1474-08		SEALED CAPTIVE ANCHOR NUT
	1		1		D4005-11	JCA-M47-2-12	FINISHING STRIP
	4		4		MS21059-L08		ANCHOR NUT
	7		7		AN525-832R6		SCREW
							<b>Electrical Parts</b>
	1		1		D8-603		6.3A ECF FUSE (ALTERNATE HA23-6U3)
	1		1		D1-205		2.5A ECF FUSE (ALTERNATE HA21-2U5)
	1		1		MS35058-23		SWITCH
	1		1		107-964		CONNECTOR RECEPTACLE
	1		1		107-978		CONNECTOR BACKSHELL (ALTERNATE 105-5465)
	1		1		107-943		CONNECTOR PLUG
				1	D4025-1	VDO-M47-JCA	FUEL QUANTITY SENDER
	4		4		MS35206-217		SCREW
	4		4		NAS1149FN416P		WASHER
	4		4		MS21044N04		NUT
	1		1		143-207		PLUG
	1		1		143-208		RECEPTACLE
	1		1		143-204		RECEPTACLE HOUSING (ALTERNATE 973-1490)
	1		1		143-203		PLUG HOUSING (ALTERNATE 973-1482)
	5		5		143-219		CRIMP PIN (ALTERNATE 977-3800)
	5		5		143-217		CRIMP SOCKET (ALTERNATE 977-3797)
	1		1		D4009-041	JCA-M47-4-01	BONDING BRAID ASSEMBLY
	1		1		D4026-041	FL-100-R-JCA	FUEL GAUGE
	2		2		AN525-832R6		SCREW - GROUND STUD
	2		2		NAS1149FN832P		WASHER
	2		2		MS21042-08		NUT
	1		1		444-2556		GAUGE MASTER SWITCH
	1		1		D4022-5	3775628	THERMAL SWITCH (125°) - FARNELL (ALTERNATE 100-6847)
							<b>General</b>
	1		1		AN5800-1		PLACARD HOLDER
	1		1		AN929-6D	M.I. 5201	BLANK CAP
							<b>Additional EC 130 Parts</b>
			3		MS35207-264		SCREW
			3		NAS1149D0332J		WASHER
			3		MS21042-3		NUT
			1		D4027-041	JCA-M47-2-20	VENT CLAMP ASSEMBLY
			1		D4004-043	JCA-M47-2-04	SIDE RESTRAINT ANGLE AND TIE DOWN POINT

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Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Part Number	Superseded Part Numbers	Description
			1		D4005-5	JCA-M47-2-06	ANGLE
			4		D4005-7	JCA-M47-2-07	ANGLE
			1		D4005-9	JCA-M47-2-08	ANGLE
			1		D4007-1	JCA-M47-2-02	TOP SUPPORT BRACKET
			1		D4005-3	JCA-M47-2-05	FORWARD RESTRAINT BEAM
			2		AN4-6A		BOLT
			1		D4007-5	JCA-M47-2-24	PACKER
			60		MS20470AD4-4		RIVET
			30		MS20470AD4-6		RIVET
			10		CR3213-4-3		CHERRY MAX RIVET
			10		CR3213-4-2		CHERRY MAX RIVET
							<b>Placards</b>
	1				D3997-1	JCA-M47-P1	FUEL QUANTITY – AS 350 MODELS
			1		D3997-3	JCA-M47-P2	FUEL QUANTITY – EC 130 B4 MODEL
	1		1		D3997-5	JCA-M47-P3	AUX FUEL DRAIN
	1		1		D3997-7	JCA-M47-P4	AUX FUEL TRANSFER PUMP
	1		1		D3997-9	JCA-M47-P5	AUX FUEL
	1		1		D3997-11	JCA-M47-P6	WEIGHT AND BALANCE
	1		1		D3997-13	JCA-M47-P7	ON/OFF
	1		1		D3997-15	JCA-M47-P8	CHECK LOCKER TANK
	1		1		D3997-17	JCA-M47-P9	STOWAGE PROHIBITED
	1		1		D3997-19	JCA-M47-P10	TANK VENT
	1		1		D3997-21	JCA-M47-P13	SWITCH FIXED
	1		1		D3997-23	JCA-M47-P14	AUX FUEL
	1				D3997-25	JCA-M47-P15	CONVERSION CHART – AS 350 MODELS
			1		D3997-27	JCA-M47-P16	CONVERSION CHART – EC 130 B4 MODEL
	1		1		D3997-29	JCA-M47-P17	DO NOT OVERFILL WARNING
	1		1		D3997-31	JCA-M47-P18	ON/OFF
	1		1		D3997-33	JCA-M47-P19	AUX GAUGE FACE
	1		1		D3997-35	JCA-M47-P20	AUX FUEL GAUGE
	1		1		D3997-37	JCA-M47-P21	6.3 A CIRCUIT BREAKER
	1		1		D3997-39	JCA-M47-P22	2.5A CIRCUIT BREAKER
	1		1		D3997-41	JCA-M47-P23	AUX TANK NOT FITTED
	1		1		D3997-43	JCA-M47-P24	EARTH

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Revision: **C**

Date: 10.01.25

# MONTAGEANLEITUNG / INSTALLATION INSTRUCTIONS



Standard-Tauchrohrgeber, Flanschlochkreis Ø 54 mm  
Standard Tubular Level Sensor, flange bolt circle dia. 54 mm

TU00-0772-5107120

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## Sicherheitshinweise



- Das Produkt wurde unter Beachtung der grundlegenden Sicherheitsanforderungen der EG-Richtlinien und dem anerkannten Stand der Technik entwickelt, gefertigt und geprüft.

Das Produkt ist nur für den Einsatz in erdgebundenen Fahrzeugen (ausgenommen Motorräder) oder stationären Anlagen zu verwenden.

### Vor dem Einbau beachten:

- Für den Einbau sind Grundkenntnisse der Kfz-Elektrik und -Mechanik erforderlich, um Schäden zu vermeiden.
- Alle Daten von flüchtigen elektronischen Speichern notieren.
- Zündschlüssel vom Zündschloss abziehen. Danach den Minuspol der Batterie (auch von Zusatzbatterien) abklemmen.
- Beim Abklemmen des Minuspols der Batterie verlieren alle flüchtigen elektronischen Speicher ihre eingegebenen Werte.
- Ein Nichtabklemmen des Minuspols der Batterie kann Kurzschlüsse im Bordnetz verursachen, die Kabelbrände, Batterieexplosionen und Beschädigungen anderer elektronischer Systeme auslösen können.
- Informieren Sie sich vor dem Einbau anhand der Kfz-Papiere über den Fahrzeugtyp und über eventuelle Besonderheiten und anhand von Bauplänen über die Lage von Kraftstoff-, Hydraulik-, Druckluft- und elektrischen Leitungen.
- Das Produkt bestimmungsgemäß einsetzen, nicht verändern oder manipulieren. Die Folgen einer nicht bestimmungsgemäßen Verwendung, einer Veränderung oder Manipulation des Produktes können Personen-, Sach-, oder Umweltschäden sein oder die Sicherheit beeinflussen.

### Während des Einbaues beachten:

- Auf die Sicherheitshinweise des Fahrzeug- oder Anlagen-, des Motor- und Handwerkerherstellers achten!
- Den Einbauort so wählen, dass das Produkt und dessen Komponenten
  - Funktionen des Fahrzeuges oder der Anlage nicht beeinflussen oder behindern.
  - durch Funktionen des Fahrzeuges oder der Anlage nicht beschädigt werden.

Nicht rauchen!  
Kein offenes Feuer oder Licht!

- Bohrungen oder Einbauöffnung nicht in tragende oder stabilisierende Streben oder Holme anbringen!

### Nach dem Einbau beachten:

- Massekabel an den Minuspol der Batterie fest anklemmen.
- Werte der flüchtigen Speicher neu eingeben/programmieren.
- Prüfen Sie alle (!) Fahrzeugfunktionen.
- Benutzen Sie zum Messen von Spannungen und Strömen im Kfz nur dafür vorgesehene Multimeter oder Diodenprüflampen. Die Benutzung herkömmlicher Prüflampen kann die Beschädigung von Steuergeräten oder anderer elektronischer Systeme zur Folge haben.

### Sonderfälle:

- Falls notwendige Arbeiten am laufenden Motor erforderlich sind, besondere Vorsicht walten lassen. Tragen Sie nur entsprechende Arbeitskleidung, da Verletzungsgefahr durch Quetschungen und Verbrennungen besteht. Tragen sie bei langen Haaren ein Haarnetz.

## Safety Instructions



- The product was developed, manufactured and inspected in compliance with the basis, safety requirements of the EC Directives and in accordance with the generally recognised present level of technology.

The product must only be used for service in vehicles restricted to the ground (with the exception of motorcycles) or in stationary systems.

### Prior to installation of the product, please observe the following instructions:

- For proper installation of the product, basic knowledge of motor vehicle electrical and mechanical equipment is required in order to prevent damage.
- Write down all the data of volatile electronic memories.
- Remove the ignition key from the ignition lock. Then disconnect the minus pole of the battery (including the minus pole of any auxiliary batteries).
- When the minus pole of the batteries are disconnected, all volatile electronic memories lose their input values.
- Failure to disconnect the minus pole of the battery can cause short-circuits in the vehicle electrical system and then result in cable fires, battery explosions and damage to other electronic systems.
- Prior to installation of the product, refer to the motor vehicle registration documents for information on the vehicle type and any special equipment features and refer to the design plans for further information on the positions of fuel, hydraulic, compressed-air and electrical lines.
- Use the product as intended. Do not change or modify. Improper use, alteration or modification of the product can result in injuries, property damage or environmental damage or have an effect on safety.

### During installation of the product, please observe the following instructions:

- Observe the safety instructions of the manufacturers of the vehicle, system, motor and tools in each instance!
- Select the installation location so that the pro-

No smoking!  
No open fire or lights!

duct and its components:

- do not affect or hinder any functions of the vehicle or system.
- are not damaged by any functions of the vehicle or system.

- Do not make drilled holes or installation openings in supporting or stabilising braces or struts!

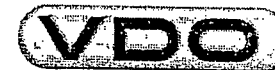
### Following installation of the product, please observe the following instructions:

- Connect the ground cable firmly to the minus pole of the battery.
- Enter / program the values of the volatile memories again.
- Check all (!) vehicle functions.
- When measuring the voltages and currents in the vehicle, only use multimeters or diode testing lamps that are designed to be used for such measurements. The use of conventional testing lamps can cause damage to the control units or other electronic systems.

### Special cases:

- Please be extremely careful whenever you must perform any required work on the running motor. Wear suitable working clothes only, since risk of suffering injuries such as bruises or burns exists. If your hair is long, wear a hairnet.

# MONTAGEANLEITUNG / INSTALLATION INSTRUCTIONS



Standard-Tauchrohrgeber, Flanschlochkreis Ø 54 mm  
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## Elektrischer Anschluss

Schließen Sie die Kabel entsprechend dem elektrischen Anschlussplan an.  
Falschanschlüsse können zu Kurzschlüssen führen!

### Sicherheitshinweise:



- Kurzschlussgefahr durch fehlerhafte Verbindungsstellen oder gequetschte Kabel!  
Deshalb müssen alle Verbindungen der Spannungsversorgung entweder weich verlötet oder mit verschweißbaren Stoßverbindern versehen und ausreichend isoliert sein.  
Andere Verbindungen können Sie mit handelsüblichen Quetschverbindern herstellen.  
Besonders auf einwandfreie Masseverbindungen achten!  
Nicht benötigte Kabelenden unbedingt isolieren!
- Kabelquerschnitt beachten!  
Eine Verringerung des Kabelquerschnittes führt zu einer höheren Stromdichte. Dies kann zu einer Erhitzung des betreffenden Kabelabschnittes führen!
- Abisolierung von Kabeln nur mit einer Abisolierzange vornehmen. Die Zange so einstellen, dass dabei keine Litze beschädigt oder getrennt werden!
- Quetschverbindungen nur mit einer Kabelquetschzange vornehmen.
- Bei der Kabelverlegung vorhandene Kabelkanäle und Kabelstränge benutzen, jedoch nicht die Kabel parallel zu Zündkabeln oder zu Kabel, die zu großen Stromverbrauchern führen, verlegen! Fixieren Sie die Kabel mit Kabelbändern oder Klebeband!
- Achten Sie darauf, dass die Kabel keinen Zug-, Druck- oder Scherkräften ausgesetzt sind!
- Wenn die Kabel durch Bohrungen geführt werden, schützen Sie die Kabel mittels Gummifüßen oder ähnlichen Teilen.

## Electrical Terminal Connection

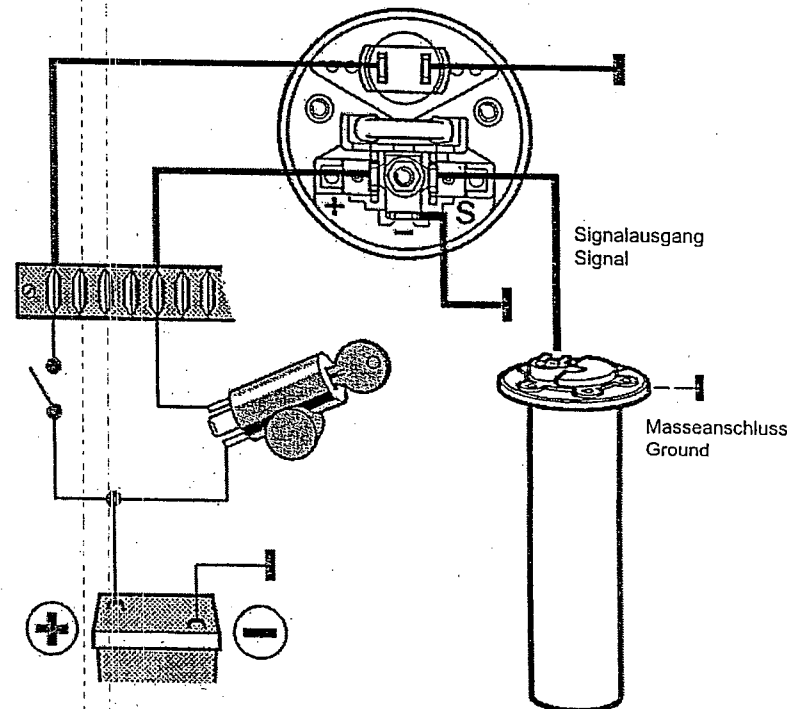
Connect the cables according to the electrical terminal connection diagram.  
Incorrect terminal connections can result in short-circuits!

### Safety Instructions



- Danger of short-circuits due to defective connecting points or pinched cables!  
All connections of the voltage supply system must therefore be soft-soldered or provided with weldable joint connectors and sufficiently insulated. You may use commercially available standard-type crimp connectors to make other connections.  
Make sure the ground connections are perfectly made!  
Insulate any cable ends that are not required!
- Take the cable cross-sectional area into account!  
A reduction of the cable cross-sectional area will result in higher current density. This can cause overheating of the affected cable section!
- Cables must be stripped using a wire stripper only. Adjust the wire stripper to prevent any strands from being damaged or cut off!
- Crimped connections must be made using a pair of cable crimping pliers only.
- When installing the cables, use the existing cable conduits and cable harnesses, but do not install the cables parallel to the ignition cables or cables that run over to high-capacity power consumers! Fasten the cables with cable straps or adhesive tape!
- Make sure the cables are not subjected to pulling, pressing or shearing forces!
- If the cables are run through drilled holes, protect the cables by means of rubber sleeves or similar parts.

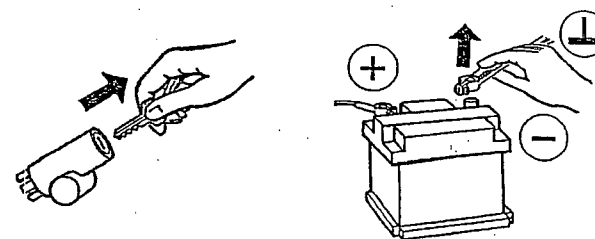
VDO cockpit vision, international oder VDO modulcockpit II  
301-010-00X, 301-020-00X oder X10-110-98X-XXX  
301-030-00X, 301-040-00X



Bei Montage bitte Arbeitsschritte ① bis ⑤ beachten.

While mounting please pay attention to work steps ① to ⑤.

①



Technische Änderungen vorbehalten - Technical details subject to change

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# MONTAGEANLEITUNG / INSTALLATION INSTRUCTIONS



Standard-Tauchrohrgeber, Flanschlochkreis Ø 54 mm  
Standard Tubular Level Sensor, flange bolt circle dia. 54 mm

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## Gebereinbauort

Eine noch herzustellende Montageöffnung im Tank an einer günstigen Stelle für die Vorratsmessung oder ein vom Tankhersteller schon vorgesehener Montageflansch oder eine schon vorgesehene Montageöffnung.

## Sicherheitshinweise



Muss eine Montageöffnung hergestellt werden, ist der Tank vorher vollständig zu entleeren. Den Kraftstoff in einen zugelassenen Behälter füllen. Wenn möglich den Tank ausbauen. Bei Arbeiten unter dem Fahrzeug die Sicherheitshinweise des Fahrzeugherstellers beachten.

**Achtung:** Durch Restgase im Tank besteht Explosionsgefahr! Den Tank mit einem Gebläse gut durchlüften (ca. 10 Minuten). Montageöffnung mit Bohrer vorbohren und mit Loch- oder Stichsäge fertigstellen. Auf die Sicherheitshinweise des Handwerkzeugherstellers achten. Tank von Bohr- und Sägerückständen reinigen.

## Sensor installation location

An installation opening remaining to be made in the tank at a suitable point for supply level measurement or at an installation flange or installation opening already provided by the tank manufacturer.

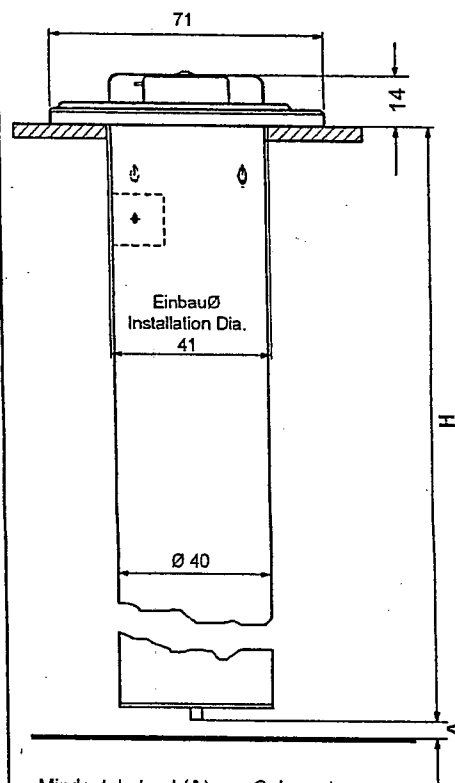
## Safety instruction



If an installation opening must be made, the tank must be completely drained first. Fill the fuel into an approved container. remove the tank whenever possible. Comply with the safety instructions of the vehicle manufacturer for any work performed under the vehicle.

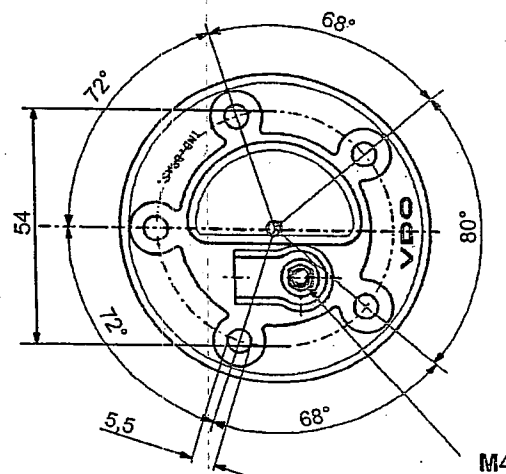
**Caution:** Risk of explosion exists due to presence of residual gases in the tank! Make sure that the tank is aired sufficiently (approx. 10 minutes).

Make a preliminary hole in the installation opening using a drill and then finish the hole using a compass saw or piercing saw. Comply with the safety instruction of the tool manufacturer. Clean the tank of residue from the drilling or sawing work.

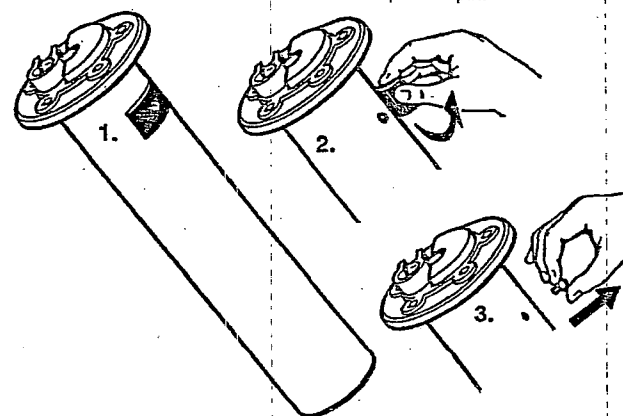


Mindestabstand (A) von Geberunterkante bis zum Tankboden: 4mm  
Minimum distance (A) from lower edge of sensor to tank floor: 4 mm

Geberlänge / Sensor length (H)



2 Vor Montage Kleband und Stift entfernen /  
Before installation, remove adhesive tape and pin.



Technische Änderungen vorbehalten - Technical details subject to change

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# MONTAGEANLEITUNG / INSTALLATION INSTRUCTIONS



Standard-Tauchrohrgeber, Flanschlochkreis Ø 54 mm  
Standard Tubular Level Sensor, flange bolt circle dia. 54 mm

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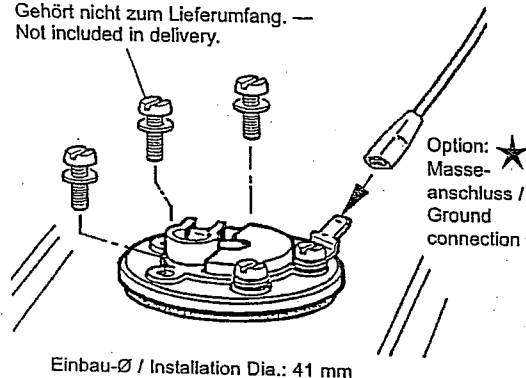
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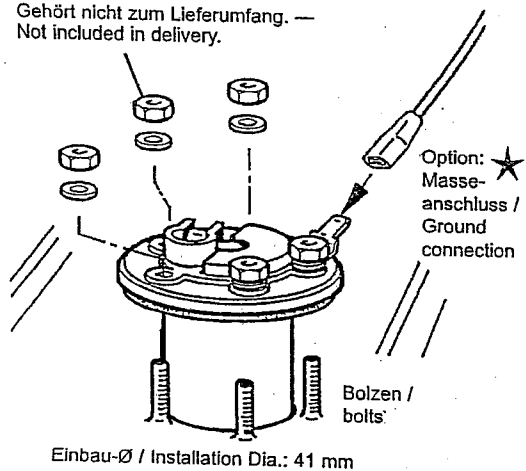
## Befestigungsart / Type of mounting:

- ③a mit 5 Schrauben / with 5 screws
- ③b mit 5 Bolzen / with 5 bolts
- ③c mit Befestigungsring / with mounting ring
- ③d mit Schweißflansch / with welding flange

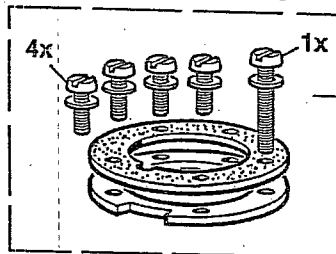
③a Gehört nicht zum Lieferumfang. —  
Not included in delivery.



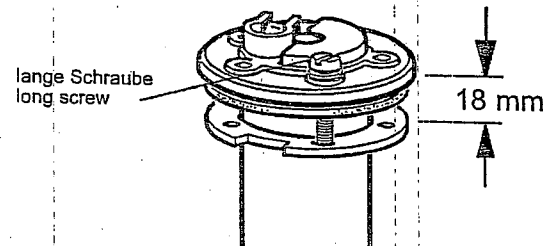
③b Gehört nicht zum Lieferumfang. —  
Not included in delivery.



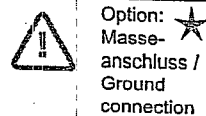
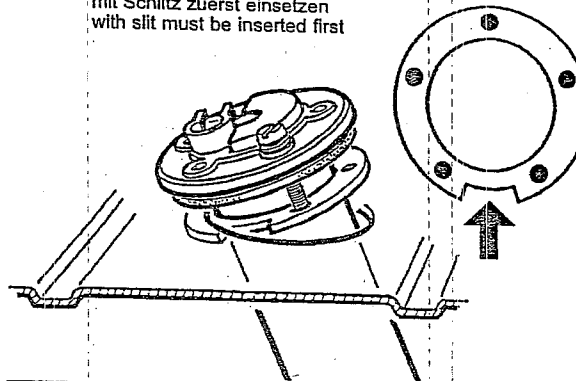
③c Tankflansch zum Anschrauben  
Tank flange for bolt-mounting



Einbau-Ø / Installation Dia.: 59 mm



mit Schlitz zuerst einsetzen  
with slit must be inserted first



Bei Masseanschluss ist zwischen Flansch und Anschlussstecker eine zusätzliche Aluminium-Dichtscheibe Ø 5,1 - 5,3 mm erforderlich.  
In case of ground connection is required an additional aluminium sealing washer dia. 5.1 - 5.3 mm between flange and spade connector.

Technische Änderungen vorbehalten - Technical details subject to change

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# MONTAGEANLEITUNG / INSTALLATION INSTRUCTIONS

**VDO**

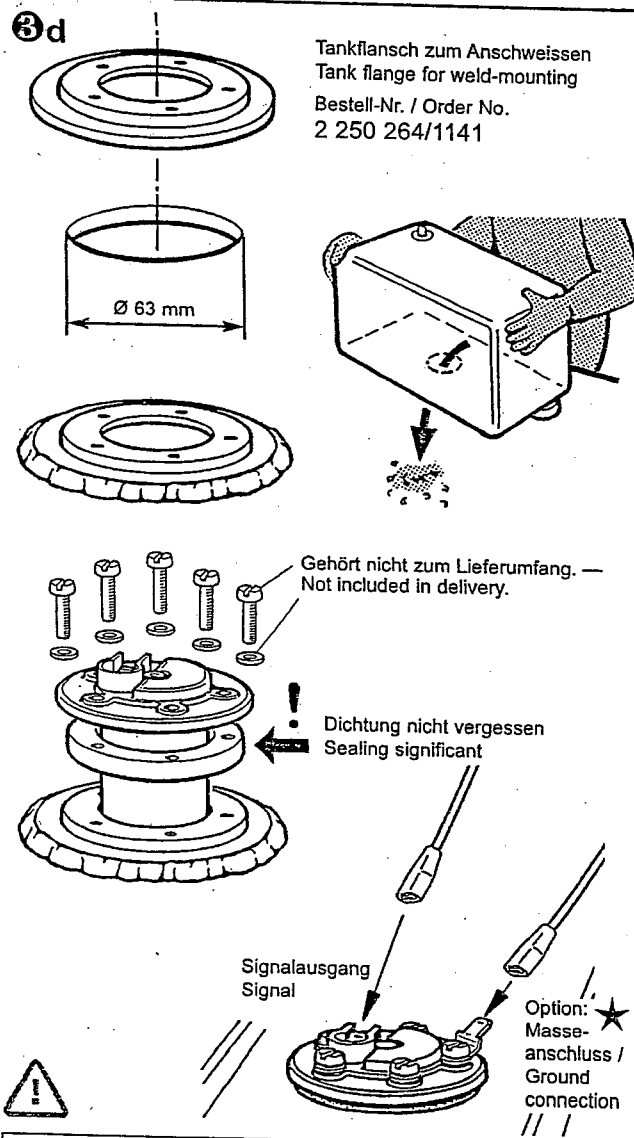
Standard-Tauchrohrgeber, Flanschlochkreis Ø 54 mm  
Standard Tubular Level Sensor, flange bolt circle dia. 54 mm

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1-5

5



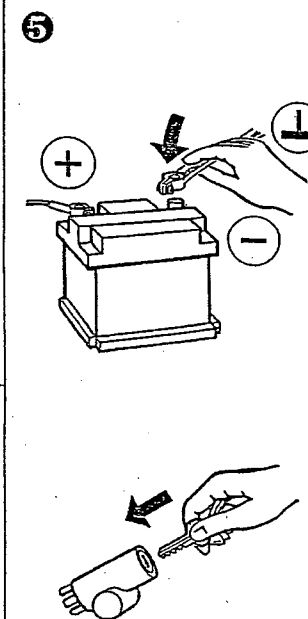
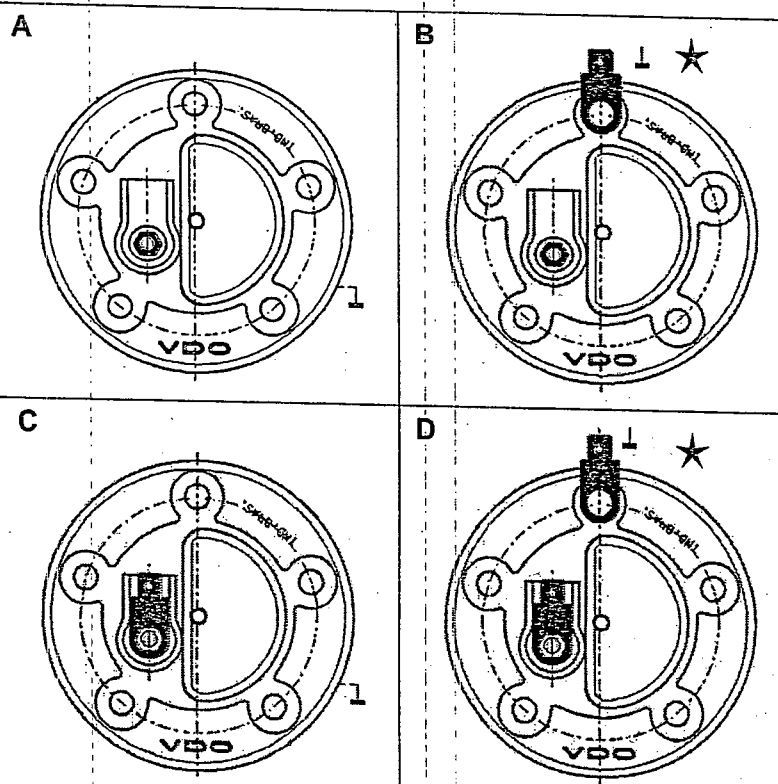
## 4 Anschlussart / Type of connection:

Mit den im Lieferumfang enthaltenen zwei Flachsteckern 6,3 x 0,8 mm sind folgende Konfigurationen der elektrischen Anschlüsse möglich:

- A M4 für Signalausgang ohne Masseanschluss
- B M4 für Signalausgang und Flachstecker für Masseanschluss
- C Flachstecker für Signalausgang ohne Masseanschluss
- D Flachstecker für Signalausgang und Flachstecker für Masseanschluss

With the two 6.3 x 0.8 mm spade connectors included in delivery the following configurations of the electric connections are possible:

- A Threaded stud M4 for signal output without ground connection
- B Threaded stud M4 for signal output and spade connector for ground connection
- C Spade connector for signal output without ground connection
- D Spade connector for signal output and spade connector for ground connection



Technische Änderungen vorbehalten - Technical details subject to change

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★ siehe Seite 4 / see page 4

